L	Hits	Search Text	DB	Time stamp
Number		(VO. CCE 7007 A VO. CO15 700 A		0005/01/11
9	13	(US-6657227-\$ or US-6015720-\$ or	USPAT;	2005/01/14
		US-6452341-\$ or US-6703265-\$ or	US-PGPUB	13:42
		US-6346718-\$ or US-6335541-\$ or		
]	US-6294441-\$ or US-6323515-\$ or		
		US-6646637-\$ or US-6486934-\$ or		
		US-6384879-\$ or US-6274888-\$).did. or		
1.0		(US-20040155295-\$).did.		0005 (01 (1 4
10	10	1 ' '	USPAT;	2005/01/14
		US-6452341-\$ or US-6703265-\$ or	US-PGPUB;	13:53
		US-6346718-\$ or US-6335541-\$ or	EPO; JPO;	
		US-6294441-\$ or US-6323515-\$ or	IBM_TDB	
		US-6646637-\$ or US-6486934-\$ or		
		US-6384879-\$ or US-6274888-\$).did. or	1 .	
		(US-20040155295-\$).did.) and grain and		
		crystal\$4 and (structure or orientation)		
11	4	, , ,	USPAT;	2005/01/14
		US-6452341-\$ or US-6703265-\$ or	US-PGPUB;	13:44
		US-6346718-\$ or US-6335541-\$ or	EPO; JPO;	
		US-6294441-\$ or US-6323515-\$ or	IBM_TDB	
		US-6646637-\$ or US-6486934-\$ or		
		US-6384879-\$ or US-6274888-\$).did. or		
		(US-20040155295-\$).did.) and grain and		
		crystal\$4 and (structure or orientation))		
		and ("same" with orientation)		
12	2898		USPAT;	2005/01/14
	ļ	orientation) and transistor	US-PGPUB;	13:54
			EPO; JPO;	
			IBM_TDB	
13	1255	(grain and crystal\$4 and (structure and	USPAT;	2005/01/14
		orientation) and transistor) and	US-PGPUB;	13:55
		(crystal\$4 adj3 orientation)	EPO; JPO;	
			IBM_TDB	
14	129	((grain and crystal\$4 and (structure and	USPAT;	2005/01/14
		orientation) and transistor) and	US-PGPUB;	13:55
		(crystal\$4 adj3 orientation)) and cluster	EPO; JPO;	
			IBM_TDB	
15	39	((((grain and crystal\$4 and (structure	USPAT;	2005/01/14
		and orientation) and transistor) and	US-PGPUB;	13:56
		(crystal\$4 adj3 orientation)) and	EPO; JPO;	
		cluster) not ((US-6657227-\$ or	IBM_TDB	
		US-6015720-\$ or US-6452341-\$ or		
		US-6703265-\$ or US-6346718-\$ or		
		US-6335541-\$ or US-6294441-\$ or		
		US-6323515-\$ or US-6646637-\$ or	1	
		US-6486934-\$ or US-6384879-\$ or		
		US-6274888-\$).did. or		
		(US-20040155295-\$).did.)) and ("same"		
		with orientation)		
16	15	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	USPAT;	2005/01/14
		and orientation) and transistor) and	US-PGPUB;	14:37
		(crystal\$4 adj3 orientation)) and	EPO; JPO;	,
		cluster) not ((US-6657227-\$ or	IBM_TDB	
		US-6015720-\$ or US-6452341-\$ or		
		US-6703265-\$ or US-6346718-\$ or		
		US-6335541-\$ or US-6294441-\$ or		
		US-6323515-\$ or US-6646637-\$ or		
		US-6486934-\$ or US-6384879-\$ or	,	
		US-6274888-\$).did. or		
		(US-20040155295-\$).did.)) and ("same"		
		with orientation)) and grain.ab.		1

17	24	(((((grain and crystal\$4 and (structure and orientation) and transistor) and (crystal\$4 adj3 orientation)) and cluster) not ((US-6657227-\$ or US-6015720-\$ or US-6452341-\$ or US-6703265-\$ or US-6346718-\$ or US-6335541-\$ or US-6323515-\$ or US-646637-\$ or US-6323515-\$ or US-6384879-\$ or US-6274888-\$).did. or (US-20040155295-\$).did.)) and ("same" with orientation)) not (((((grain and crystal\$4 and (structure and orientation) and transistor) and (crystal\$4 adj3 orientation)) and cluster) not ((US-6657227-\$ or US-6452341-\$ or US-6335541-\$ or US-6452341-\$ or US-6335541-\$ or US-646637-\$ or US-6323515-\$ or US-6294441-\$ or US-6323515-\$ or US-6384879-\$ or US-6274888-\$).did. or (US-20040155295-\$).did.)) and ("same"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2005/01/14
				l l
-	533	with orientation)) and grain.ab.) ogata-kiyoshi.in.	USPAT; US-PGPUB; EPO; JPO;	2004/08/17 10:10
1			IBM TDB	1
	ا ہے ا	halahan majahi in	_	2004/08/17
-	56	takahara-yoichi.in.	USPAT;	
1			US-PGPUB;	10:10
			EPO; JPO;	l i
			IBM TDB	
_	114	horikoshi-kazuhiko.in.	USPAT;	2004/08/17
	117	110111100111 Nalamitho. III.	US-PGPUB;	10:10
				-0. +0
			EPO; JPO;	
			IBM_TDB	/
-	11	yamaguchi-hironaru.in.	USPAT;	2004/08/17
			US-PGPUB;	10:10
			EPO; JPO;	
			IBM TDB	
	3-7	ohkura-makoto.in.	USPAT;	2004/08/17
1 -	37	onkura-makoto.in.		
			US-PGPUB;	10:10
1			EPO; JPO;	
			IBM TDB	
_	114	abe-hironobu.in.	USPAT;	2004/08/17
1			US-PGPUB;	10:10
			EPO; JPO;	
			IBM TDB	
1	ا ـ			2004/09/17
-	9	saitou-masakazu.in.	USPAT;	2004/08/17
			US-PGPUB;	10:10
			EPO; JPO;	
1			IBM_TDB	
ļ -	185	kimura-yoshinobu.in.	USPAT;	2004/08/17
			US-PGPUB;	10:11
			EPO; JPO;	
			IBM TDB	
1_	40	itoga-toshihiko in	USPAT;	2004/08/17
1 -	40	itoga-toshihiko.in.		10:11
			US-PGPUB;	10.11
			EPO; JPO;	
			IBM_TDB	
-	35	tamura-takuo.in.	USPAT;	2004/08/17
			US-PGPUB;	10:11
			EPO; JPO;	
			IBM TDB	
1_	2	ogata-kiyoshi.in. takahara-yoichi.in.	USPAT	2004/08/17
-		horikoshi-kazuhiko.in.		10:33
1				10.55
		yamaguchi-hironaru.in. ohkura-makoto.in.		
1		abe-hironobu.in. saitou-masakazu.in.		
1		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) and ((thin adj film adj	1	
		transistor) or "TFT") and grain and		
		cluster		
			l	

	2	<pre>(((((thin adj film adj transistor) or "TFT") and (grain and cluster and orientation and crystal and substrate)) not ((ogata-kiyoshi.in. takahara-yoichi.in. horikoshi-kazuhiko.in. yamaguchi-hironaru.in. ohkura-makoto.in. abe-hironobu.in. saitou-masakazu.in. kimura-yoshinobu.in. itoga-toshihiko.in. tamura-takuo.in.) "6657227" "6716688" (("6150203" "6294441" "6331496" "6444506").PN.))) and (plurality and</pre>	USPAT	2004/08/17
-	97	electrode and liquid and display)) and (grain and cluster).clm. (((((thin adj film adj transistor) or "TFT") and (grain and cluster and orientation and crystal and substrate)) not ((ogata-kiyoshi.in. takahara-yoichi.in. horikoshi-kazuhiko.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/17 10:47
		yamaguchi-hironaru.in. ohkura-makoto.in. abe-hironobu.in. saitou-masakazu.in. kimura-yoshinobu.in. itoga-toshihiko.in. tamura-takuo.in.) "6657227" "6716688" (("6150203" "6294441" "6331496" "6444506").PN.))) and (plurality and electrode and liquid and display)) not ((((thin adj film adj transistor) or "TFT") and (grain and cluster and orientation and crystal and substrate)) not ((ogata-kiyoshi.in. takahara-yoichi.in. horikoshi-kazuhiko.in. yamaguchi-hironaru.in. ohkura-makoto.in. abe-hironobu.in. saitou-masakazu.in.		
-	13	kimura-yoshinobu.in. itoga-toshihiko.in. tamura-takuo.in.) "6657227" "6716688" (("6150203" "6294441" "6331496" "6444506").PN.))) and (plurality and electrode and liquid and display)) and (grain and cluster).clm.) (((((thin adj film adj transistor) or "TFT") and (grain and cluster and orientation and crystal and substrate)) not ((ogata-kiyoshi.in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/08/17 10:48
		takahara-yoichi.in. horikoshi-kazuhiko.in. yamaguchi-hironaru.in. ohkura-makoto.in. abe-hironobu.in. saitou-masakazu.in. kimura-yoshinobu.in. itoga-toshihiko.in. tamura-takuo.in.) "6657227" "6716688" (("6150203" "6294441" "6331496" "6444506").PN.))) and (plurality and electrode and liquid and display)) not ((((thin adj film adj transistor) or "TFT") and (grain and cluster and orientation and crystal and substrate)) not ((ogata-kiyoshi.in. takahara-yoichi.in. horikoshi-kazuhiko.in. yamaguchi-hironaru.in. ohkura-makoto.in. abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in. tamura-takuo.in.) "6657227" "6716688" (("6150203" "6294441" "6331496" "6444506").PN.))) and (plurality and electrode and liquid and display)) and (grain and cluster).clm.)) and (crystal adj orientation)		·

_	997	ogata-kiyoshi.in. takahara-yoichi.in.	USPAT;	2004/08/17
		horikoshi-kazuhiko.in.	US-PGPUB;	14:27
	1	yamaguchi-hironaru.in. ohkura-makoto.in.	EPO; JPO;	
		abe-hironobu.in. saitou-masakazu.in.	IBM_TDB	
	İ	kimura-yoshinobu.in. itoga-toshihiko.in.	_	
		tamura-takuo.in.		
-	2	"6657227"	USPAT;	2004/08/17
			US-PGPUB;	14:27
			EPO; JPO;	
	}		IBM TDB	
-	2	"6716688"	USPAT;	2004/08/17
			US-PGPUB;	14:27
ŀ			EPO; JPO;	
			IBM TDB	
-	4	("6150203" "6294441" "6331496"	USPĀT	2004/08/17
		"6444506").PN.		14:27
_	124	· ·	USPAT	2004/08/17
		and (grain and cluster and orientation		14:28
		and crystal and substrate)		
_	122	(((thin adj film adj transistor) or	USPAT	2004/08/17
		"TFT") and (grain and cluster and	· · · · · · · · · · · · · · · · · · ·	14:28
		orientation and crystal and substrate))		
		not ((ogata-kiyoshi.in.		
1		takahara-yoichi.in.		
		horikoshi-kazuhiko.in.		
		yamaquchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.	[i
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
		"6444506").PN.))		
_	99	((((thin adj film adj transistor) or	USPAT	2004/08/17
		"TFT") and (grain and cluster and		15:33
		orientation and crystal and substrate))		
		not ((ogata-kiyoshi.in.		
		takahara-yoichi.in.		
		horikoshi-kazuhiko.in.		
		yamaguchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
		"6444506").PN.))) and (plurality and		
		electrode and liquid and display)		
-	13	(((((thin adj film adj transistor) or	USPAT;	2004/08/17
		"TFT") and (grain and cluster and	US-PGPUB;	15:34
		orientation and crystal and substrate))	EPO; JPO;	
		not ((ogata-kiyoshi.in.	IBM TDB	
		takahara-yoichi.in.	_	
		horikoshi-kazuhiko.in.		
		yamaguchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
		"6444506").PN.))) and (plurality and		
		electrode and liquid and display)) and		
		(crystal adj orientation)		

	·			
-	86	, , , , , , , , , , , , , , , , , , , ,	USPAT;	2004/08/17
		"TFT") and (grain and cluster and	US-PGPUB;	15:34
		orientation and crystal and substrate))	EPO; JPO;	
		not ((ogata-kiyoshi.in.	IBM_TDB	
ľ		takahara-yoichi.in.	_	
	1	horikoshi-kazuhiko.in.	Ì	
		yamaguchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		İ
		"6444506").PN.))) and (plurality and		
		electrode and liquid and display)) not		
1	1	(((((thin adj film adj transistor) or		
		"TFT") and (grain and cluster and		
		orientation and crystal and substrate))		
		not ((ogata-kiyoshi.in.	}	
		takahara-yoichi.in.	1	
		horikoshi-kazuhiko.in.		
		vamaguchi-hironaru.in. ohkura-makoto.in.		
1		abe-hironobu.in. saitou-masakazu.in.	1	
		kimura-voshinobu.in. itoga-toshihiko.in.	1	
		tamura-takuo.in.) "6657227" "6716688"	1	
1		(("6150203" "6294441" "6331496"		
		((6130203 6234441 6331496 "6444506").PN.))) and (plurality and		· ·
		electrode and liquid and display)) and		
		(crystal adj orientation))	IICDAM.	2004/09/17
-	0		USPAT;	2004/08/17
		"TFT") and (grain and cluster and	US-PGPUB;	15:35
		orientation and crystal and substrate))	EPO; JPO;	
İ		not ((ogata-kiyoshi.in.	IBM_TDB	
İ		takahara-yoichi.in.	i	
		horikoshi-kazuhiko.in.		
İ	1	yamaguchi-hironaru.in. ohkura-makoto.in.		
i		abe-hironobu.in. saitou-masakazu.in.		
	1	kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
	Ì	(("6150203" "6294441" "6331496"		
		"6444506").PN.))) and (plurality and		
		electrode and liquid and display)) not		
		((((((thin adj film adj transistor) or		
		"TFT") and (grain and cluster and		
		orientation and crystal and substrate))	1	
		not ((ogata-kiyoshi.in.		
		takahara-yoichi.in.		
		horikoshi-kazuhiko.in.		
		yamaguchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
1		"6444506").PN.))) and (plurality and		
1		electrode and liquid and display)) and		
		(crystal adj orientation))) and ("same		
		orientation")		
-	119	((thin adj film adj transistor) or "TFT")	USPAT;	2004/08/17
1		and (grain and ("same crystal	US-PGPUB;	15:36
		orientation" or "same orientation"))	EPO; JPO;	
	[IBM_TDB	

-	107	(((==================================	USPAT;	2004/08/17
		"TFT") and (grain and ("same crystal	US-PGPUB;	15:37
		orientation" or "same orientation"))) not	EPO; JPO;	
		((ogata-kiyoshi.in. takahara-yoichi.in.	IBM_TDB	
		horikoshi-kazuhiko.in.		•X•
		yamaguchi-hironaru.in. ohkura-makoto.in.		
1		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
		"6444506").PN.) (((((thin adj film adj		
		transistor) or "TFT") and (grain and		
		cluster and orientation and crystal and		
		substrate)) not ((ogata-kiyoshi.in.		
		takahara-yoichi.in.		Í
		horikoshi-kazuhiko.in.		
		yamaquchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in.		İ
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
1		"6444506").PN.))) and (plurality and		
		electrode and liquid and display)) and	_	<u> </u>
		(crystal adj orientation)))		1
_	3	1 ' •	USPAT;	2004/08/17
_	3	"TFT") and (grain and ("same crystal	US-PGPUB;	15:43
		orientation" or "same orientation"))) not	EPO; JPO;	13.43
į		((ogata-kiyoshi.in. takahara-yoichi.in.	IBM TDB	
		horikoshi-kazuhiko.in.	TBM_TDB	
		vamaguchi-hironaru.in. ohkura-makoto.in.		
		2		
		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
		"6444506").PN.) (((((thin adj film adj		
		transistor) or "TFT") and (grain and		
		cluster and orientation and crystal and		
		substrate)) not ((ogata-kiyoshi.in.		
		takahara-yoichi.in.		
1		horikoshi-kazuhiko.in.		
	†	yamaguchi-hironaru.in. ohkura-makoto.in.		
	1	abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
,		(("6150203" "6294441" "6331496"		
		"6444506").PN.))) and (plurality and		
	!	electrode and liquid and display)) and		
		(crystal adj orientation)))) and (display		
	1	or (liquid near2 display)) and substrate	}	
	1	and cluster		

		11114523 244 62333 12 63333 1	110022	1 2004/00/17
-	104	((((thin adj film adj transistor) or "TFT") and (grain and ("same crystal	USPAT; US-PGPUB;	2004/08/17 15:43
1		orientation" or "same orientation"))) not	EPO; JPO;	13.73
		((ogata-kiyoshi.in. takahara-yoichi.in.	IBM TDB	
		horikoshi-kazuhiko.in.		
		yamaguchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.)		
		((6130203		
		transistor) or "TFT") and (grain and		
		cluster and orientation and crystal and		
		substrate)) not ((ogata-kiyoshi.in.		
		takahara-yoichi.in.		
		horikoshi-kazuhiko.in.		
		yamaguchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in. kimura-yoshinobu.in. itoga-toshihiko.in.		
1		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
		"6444506").PN.))) and (plurality and		
		electrode and liquid and display)) and		,
		(crystal adj orientation)))) not		
		(((((thin adj film adj transistor) or		
		"TFT") and (grain and ("same crystal orientation"))) not		
		((ogata-kiyoshi.in. takahara-yoichi.in.		
i		horikoshi-kazuhiko.in.		
		yamaguchi-hironaru.in. ohkura-makoto.in.		
:		abe-hironobu.in. saitou-masakazu.in.		
		kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"	·	
		(("6150203" "6294441" "6331496"		
		"6444506").PN.) (((((thin adj film adj transistor) or "TFT") and (grain and		
		cluster and orientation and crystal and		
:		substrate)) not ((ogata-kiyoshi.in.		
		takahara-yoichi.in.		
		horikoshi-kazuhiko.in.		
		yamaguchi-hironaru.in. ohkura-makoto.in.		
		abe-hironobu.in. saitou-masakazu.in. kimura-yoshinobu.in. itoga-toshihiko.in.		
		tamura-takuo.in.) "6657227" "6716688"		
		(("6150203" "6294441" "6331496"		
		"6444506").PN.))) and (plurality and		
		electrode and liquid and display)) and		
		(crystal adj orientation)))) and (display		
		or (liquid near2 display)) and substrate and cluster)		
_	4	and cluster) (((thin adj film adj transistor) or	USPAT;	2004/08/17
]	"TFT") and (grain and ("same crystal	US-PGPUB;	15:47
		orientation" or "same orientation"))) and	EPO; JPO;	
		(liquid adj crystal adj display).clm. and	IBM_TDB	
	-	(substrate and source and drain and		
	a	channel).clm.	IICDAT.	2004/08/17
-	1	(ogata-kiyoshi.in. takahara-yoichi.in. horikoshi-kazuhiko.in.	USPAT; US-PGPUB;	15:48
		yamaquchi-hironaru.in. ohkura-makoto.in.	EPO; JPO;	
		abe-hironobu.in. saitou-masakazu.in.	IBM_TDB	
	*	kimura-yoshinobu.in. itoga-toshihiko.in.	_	
	•	tamura-takuo.in.) and (liquid adj crystal		
		adj display).clm. and (substrate and		
		source and drain and channel).clm. and		
_	452	((thin adj film adj transistor) or "TFT") (liquid adj crystal adj display).clm. and	USPAT;	2004/08/17
_	432	(substrate and source and drain and	US-PGPUB;	15:49
		channel).clm. and ((thin adj film adj	EPO; JPO;	
		transistor) or "TFT").clm.	IBM_TDB	

-	21	((liquid adj crystal adj display).clm.	USPAT;	2004/08/17
		and (substrate and source and drain and	US-PGPUB;	15:49
		channel).clm. and ((thin adj film adj	EPO; JPO;	
		transistor) or "TFT").clm.) and hitachi	IBM TDB	·
_	13	(US-6657227-\$ or US-6015720-\$ or	USPAT;	2005/01/14
		US-6452341-\$ or US-6703265-\$ or	US-PGPUB	11:39
		US-6346718-\$ or US-6335541-\$ or		
		US-6294441-\$ or US-6323515-\$ or		
		US-6646637-\$ or US-6486934-\$ or	1	
		US-6384879-\$ or US-6274888-\$).did. or		
		(US-20040155295-\$).did.	1	